

# **APPARATUS AND METHOD FOR DETECTING OPTICAL DISC TYPE AND/OR ADJUSTING TRACK BALANCE**

## **ABSTRACT OF THE DISCLOSURE**

5            Provided are an apparatus and method for detecting a type of an optical  
disc inserted into an optical disc system and/or adjusting a track balance in the  
optical disc system by detecting voltages of a focus error signal and a tracking  
error signal. For detecting a type of an optical disc inserted into an optical disc  
system, the apparatus comprising: an analog-to-digital converter that converts a  
10        focus error signal into n-bit voltage data; and a duty measurer that compares the  
n-bit voltage data with a positive noise voltage level and a negative noise voltage  
level, upcounts by a predetermined value if the n-bit voltage data is higher than  
the positive noise voltage level or lower than the negative voltage level, and  
outputs the upcounted result as a duty of the focus error signal.